TC-W295/W390

SERVICE MANUAL

US Model
TC-W295
TC-W390

Canadian Model
E Model
TC-W295

TC-W295 is the cassette deck section in SEN-290.

Photo: TC-W390

SPECIFICATIONS

Recording system
4-track 2-channel stereo
Fast-forward and rewind time
Approx. 120 sec. (with C-60 cassette)
Bias AC bias
Signal-to-noise ratio (NAB, at peak level)

Dolby NR switch / Cassette	OFF	B-TYPE ON
TYPE IV (Sony METAL-ES)	58 dB	65 dB
TYPE II (Sony UX-S)	56 dB	63 dB
TYPE I (Sony HF-S)	54 dB	61 dB

Total harmonic distortion
1.0 % (with Sony METAL-ES cassette)

Frequency response (DOLBY NR OFF)

TYPE IV cassette (Sony METAL-ES)	30–15,000 Hz (±3 dB) 30–13,000 Hz (0VU recording)
TYPE II cassette (Sony UX-S)	30–14,000 Hz (±3 dB)
TYPE I cassette (Sony HF-S)	30–13,000 Hz (±3 dB)

Wow and flutter 0.12% WRMS (NAB)

Input

Connector	Type	Sensitivity	Impedance
LINE IN	phono	77.5 mV (–20 dB)	50 kilohms

Output

Connector	Type	Rated output level	Load impedance
LINE OUT	phono	0.44 V (–5 dB) at load impedance 47 kilohms	over 10 kilohms

MICROFILM

Model Name Using Similar Mechanism		TC-W200
Tape Transport Mechanism Type	DECK A	TCM-YM47CW-73
	DECK B	TCM-YM47CW-72

General
Power requirements
120 V AC, 60 Hz
Power consumption
15 W
Dimensions Approx. 430×118×250 mm (w/h/d)
(17×4¾×9⅞ inches)
including projecting parts and controls
Weight Approx. 3.4 kg (7 lbs 8 oz)
Supplied accessories
Connecting cord (2)
System control cord (3-pin) (1)

Design and specifications subject to change without notice.

Recording system 4-track 2-channel stereo
Frequency response DOLBY NR OFF
With TYPE IV cassette (Sony METAL-ES)
30 — 15,000 Hz (±3 dB)
30 — 13,000 Hz (0VU recording)
With TYPE II cassette (Sony UCX-S)
30 — 14,000 Hz (±3 dB)
With TYPE I cassette (Sony HF-S)
30 — 13,000 Hz (±3 dB)
Wow and flutter 0.12% WRMS (NAB)
Dimensions Approx. 430 × 118 × 250 mm (w/h/d)
(17 × 4¾ × 9⅞ inches)
incl. projecting parts and controls
Weight Approx. 2.9 kg (6 lb 7 oz) net

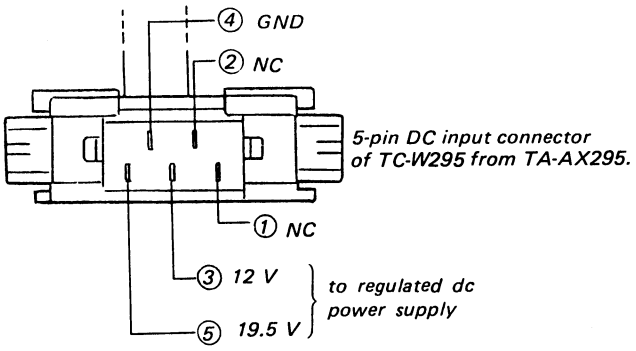
Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol ⧈ are trademarks of Dolby Laboratories Licensing Corporation.

STEREO CASSETTE DECK

SONY®

SERVICING NOTE FOR TC-W295
[To supply B+ voltage]

When this model alone operates, connect the unit to the regulated DC power supply, since power of this model is fed from TA-AX295.



SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim,, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

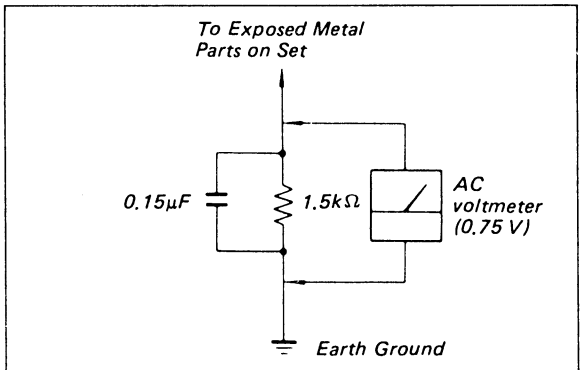


Fig. A. Using an AC voltmeter to check AC leakage.

SECTION 1
ADJUSTMENTS

1-1. MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:
   record/playback head — pinch roller
   erase head — rubber betls
   capstan — idlers

Torque Measurement (DECKS A and B)

Torque	Torquement	Meter reading
FWD	CQ-102C	35 – 70 g•cm (0.49 – 0.97 oz•inch)
FF, REW	CQ-201B	70 – 160 g•cm (0.98 – 2.22 oz•inch)

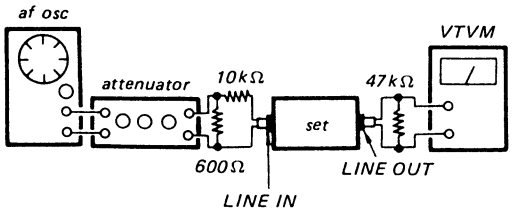
1-2. ELECTRICAL ADJUSTMENTS

1. Demagnetize the record/playback and erase head with a head demagnetizer.
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjusted.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
6. The adjustments should be performed for both L-CH and R-CH.

- Switches and controls should be set as follows unless otherwise specified.
  DOLBY NR switch: OFF
  TAPE TYPE switch: TYPE I (NORMAL)

- Standard Record:
  Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard output signal level.

– Record Mode –



Note: Before recording short CN505 with a lead wire, otherwise MUTING functions and output signal does not appear at LINE OUT terminals.

Standard Input Level

	LINE IN
source impedance	10 kΩ
input level	0.25V (–10dB)

Standard Output Level

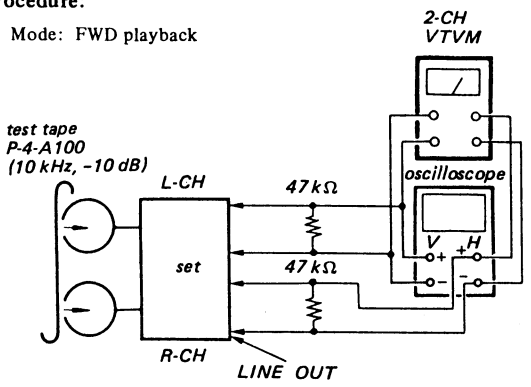
	LINE OUT
load impedance	47 kΩ
output level	0.44V (–5dB)

Record/Playback Head Azimuth Adjustment

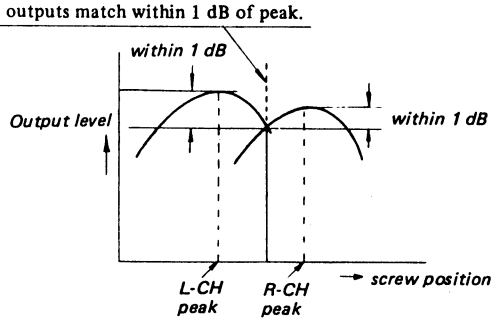
DECK A
DECK B

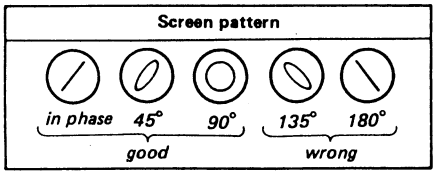
Procedure:

1. Mode: FWD playback



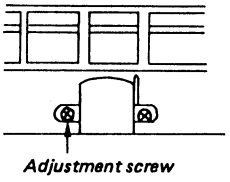
2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1 dB of peak.





3. After the adjustment, apply suitable locking compound to the adjustment screw.

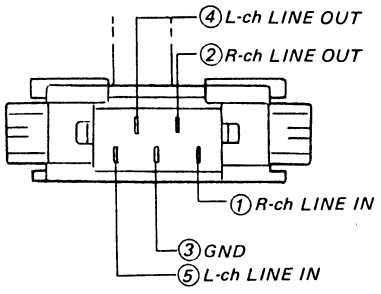
Adjustment Location:



Test Tape:

Type	Signal	Used for
P-4-A100	10kHz, –10dB	Azimuth Adjustment
P-4-L300	315Hz, 0dB	Level Adjustment
WS-48A	3kHz, 0dB	Tape Speed Adjustment

[LINE IN/OUT for TC-W295] : CN321

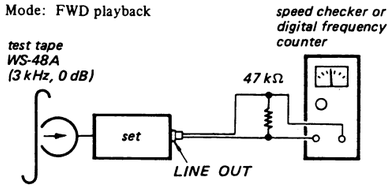


Tape Speed Adjustment

DECK A
DECK B

Procedure:

Mode: FWD playback



1. Short the pins of CN504 with a wire to set the high speed mode.

Measurement limits: high speed

Speed checker	Digital frequency counter
±0.3%	5,960 ±20 Hz

Frequency difference between the beginning and the end of the tape should be within 1.5% (90 Hz).

Adjustment Location:

DECK-A: RV501
DECK-B: RV503

2. Remove the wire in step 1. (CN504)

Measurement limits: normal speed

Speed checker	Digital frequency counter
±0.3%	2,980 ±10 Hz

Frequency difference between the beginning and the end of the tape should be within 1.5% (45 Hz).

Adjustment Location:

DECK-A: RV502
DECK-B: RV504

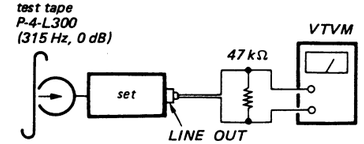
3. If the specifications are not satisfied, repeat step 1 and 2.

Playback Level Adjustment

DECK A
DECK B

Procedure:

Mode: FWD playback



Adjust,
DECK-A: RV101 (L-CH), RV201 (R-CH)
DECK-B: RV102 (L-CH), RV202 (R-CH)
so that the measurement limits are satisfied.

Measurement limits:

LINE OUT level: 0.42 – 0.46V(–5 ±0.5 dB)
level difference between the channels: within 0.5 dB

Record Bias Current Adjustment

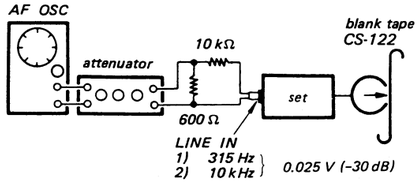
DECK B

Setting:

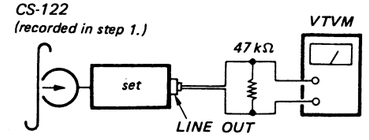
REC LEVEL control: standard record (See page 3.)

Procedure:

1. Mode: record



2. Mode: playback



Playback the tape record in step 1. If the measurement limits is not satisfied, adjust C408-1 (L-CH), C408-2 (R-CH) and repeat steps 1 and 2.

Measurement limits:

The LINE OUT level of 10 kHz signal relative to that of 315 Hz: -0.5 dB to 0.5 dB.

Record Level Adjustment

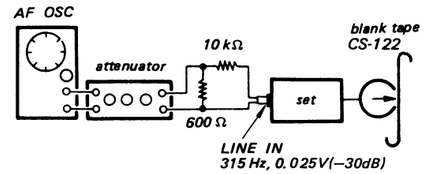
DECK B

Setting:

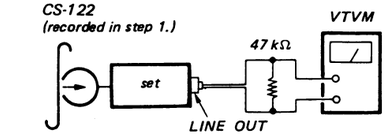
REC LEVEL control: standard record (See page 3.)

Procedure:

1. Mode: record



2. Mode: playback



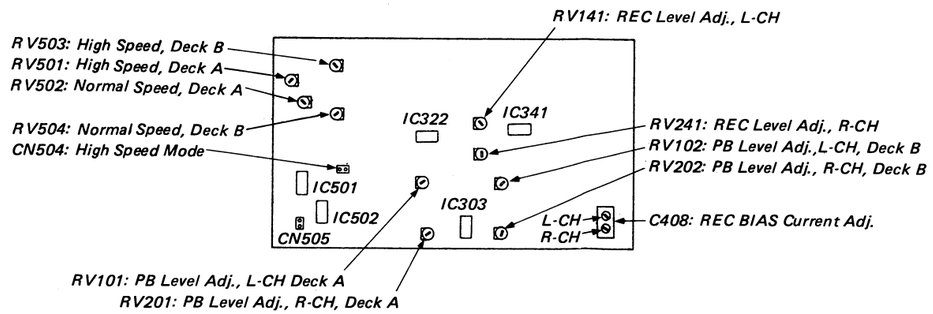
Playback the tape recorded in step 1. If the measurement limits is not satisfied, adjust RV141 (L-CH), RV241 (R-CH) and repeat steps 1 and 2. If the level difference between the channels is still 1 dB or more, divide it to the both channels on the basis of –5 dB.

Measurement limits:

LINE OUT level: 0.039V – 0.048V (–25±1 dB)

Adjustment Location:

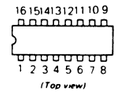
[AUDIO BOARD] *– COMPONENT SIDE –*



SECTION 2
DIAGRAMS

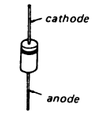
2-1. SEMICONDUCTOR LEAD LAYOUTS

CXA1100P
CXA1198AP
TC4051BPHB



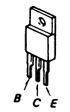
2SC945-P
2SC1815Y
2SD1387
2SC3623-L

US1060M
10E2



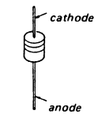
IR2E31

2SD2012

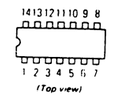


LA3160

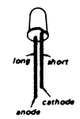
HZS6A1L
HZS11C2L



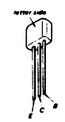
M4001BP
M4011BP
M4066BP



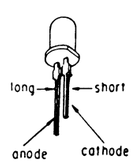
SEL1210S



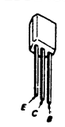
BA1L4M
2SC2785



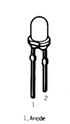
GL-5HY41



DTA144ES
DTC114ES
DTC143TS
2SC2458-Y



SEL4214S

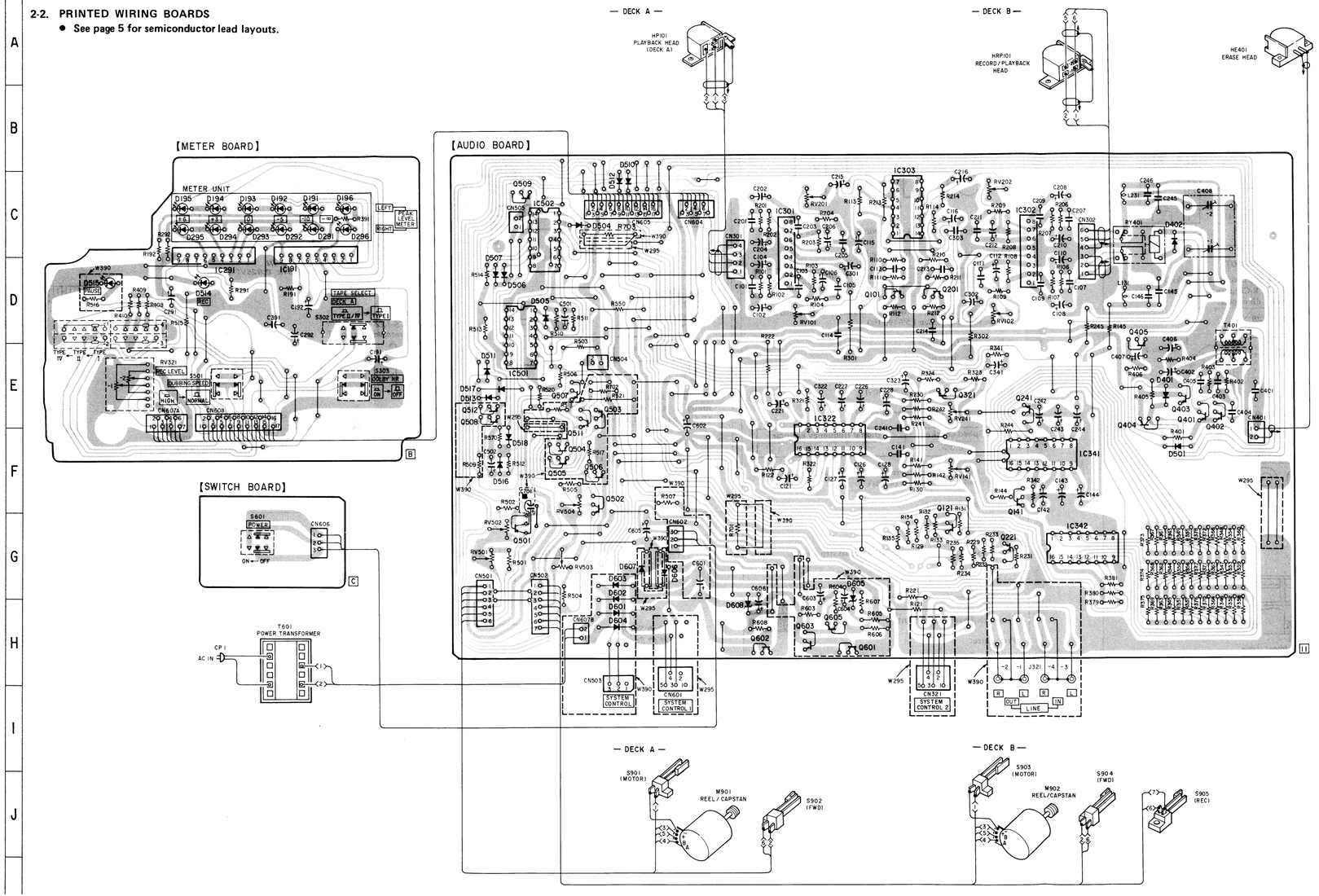


● SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D191	C-4	IC191	D-4
D192	C-4	IC291	D-3
D193	C-3	IC301	C-9
D194	C-3	IC302	C-12
D195	C-2	IC303	C-11
D196	C-4	IC322	F-10
D291	C-4	IC341	F-13
D292	C-4	IC342	G-13
D293	C-3	IC501	D-6
D294	C-3	IC502	C-7
D295	C-2		
D296	C-4	Q101	D-11
D401	E-14	Q121	G-11
D402	C-14	Q141	F-12
D501	F-14	Q201	D-11
D504	C-7	Q221	G-12
D505	D-7	Q241	E-12
D506	D-6	Q321	E-11
D507	D-6	Q401	E-14
D510	C-8	Q402	E-14
D511	E-6	Q403	E-14
D512	C-7	Q404	E-14
D513	E-6	Q405	E-14
D514	D-3	Q501	G-6
D515	D-2	Q502	F-7
D516	F-6	Q503	E-7
D517	E-6	Q504	F-7
D518	F-6	Q505	F-7
D601	H-7	Q506	F-7
D602	G-7	Q507	E-7
D603	G-7	Q508	E-6
D604	H-7	Q509	C-6
D605	G-10	Q511	E-7
D606	G-8	Q512	E-6
D607	G-8	Q601	H-10
D608	H-9	Q602	H-9
		Q603	H-10
		Q605	H-10

2-2. PRINTED WIRING BOARDS

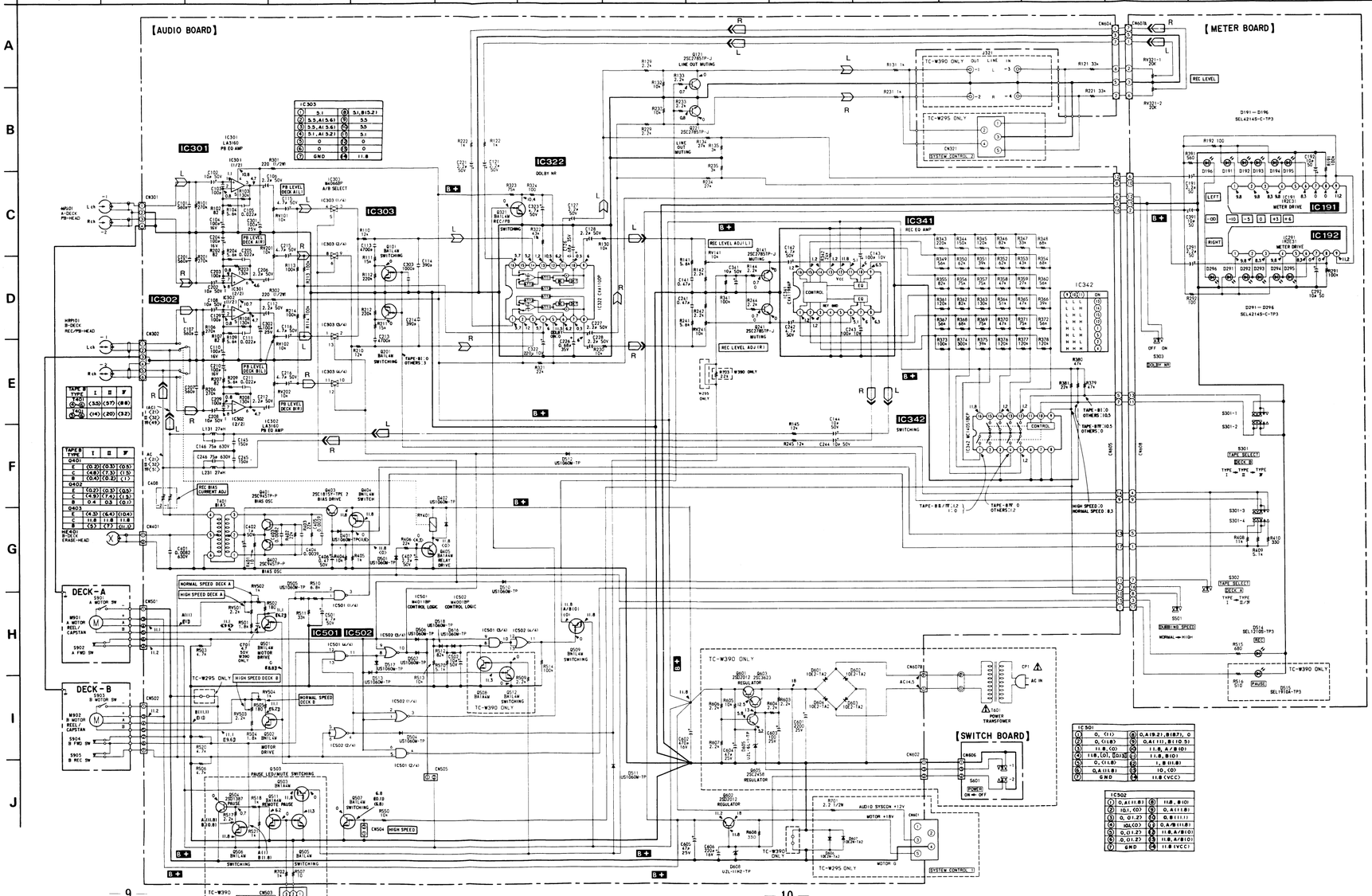
● See page 5 for semiconductor lead layouts.



Note on Mounting Diagram:

Note:

- ● —○— : parts extracted from the component side.
- ● ■ : parts mounted on the conductor side.



Note on Schematic Diagram:

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- ▭ : adjustment for repair.
- AC voltage readings in the bias oscillator with a VTVM.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark: STOP
  A ( ) : PB (DECK A)
  B ( ) : PB (DECK B)
  < > : REC (DECK B)
  [ ] : DUBBING (NORMAL)
  [[ ]] : DUBBING (HIGH)
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ▷ : PB (DECK A)
  ▭ : PB (DECK B)
  ▭▷ : REC (DECK B)
- Switches:

Ref. No.	Switch	Position
S301	TAPE (DECK B)	TYPE I
S302	TAPE (DECK A)	TYPE I
S303	DOLBY NR	OFF
S501	DUBBING SPEED	NORMAL
S601	(W380) ... POWER	OFF
S901	MOTOR, DECK A	OFF
S902	FWD, DECK A	ON
S903	MOTOR, DECK B	OFF
S904	FWD, DECK B	ON
S905	RECORD	ON

Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

SECTION 3
EXPLODED VIEWS

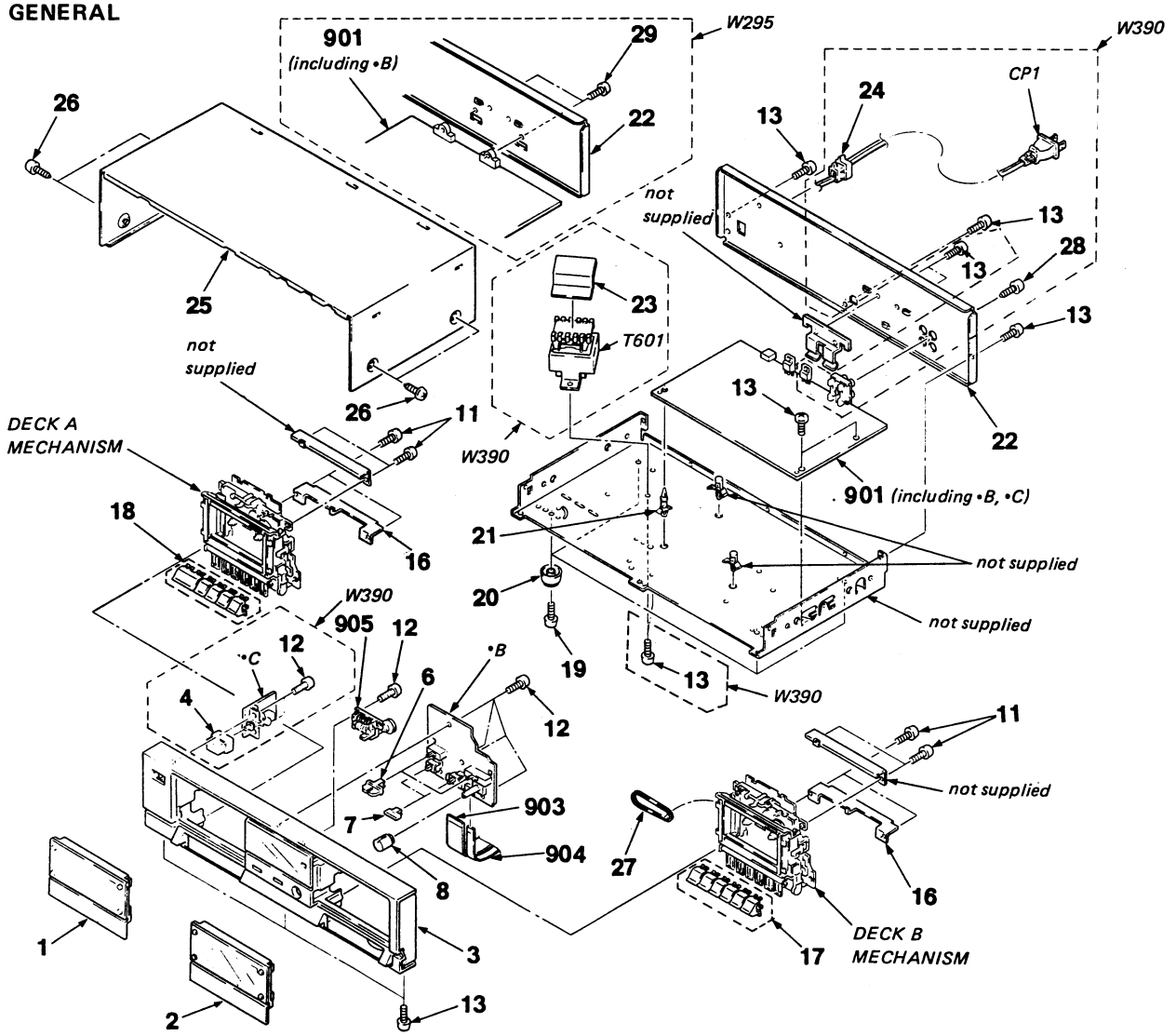
NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
  Example:
  (RED) ... KNOB, BALANCE (WHITE)
  ↑ ↑
  Cabinet's Color Parts' Color

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

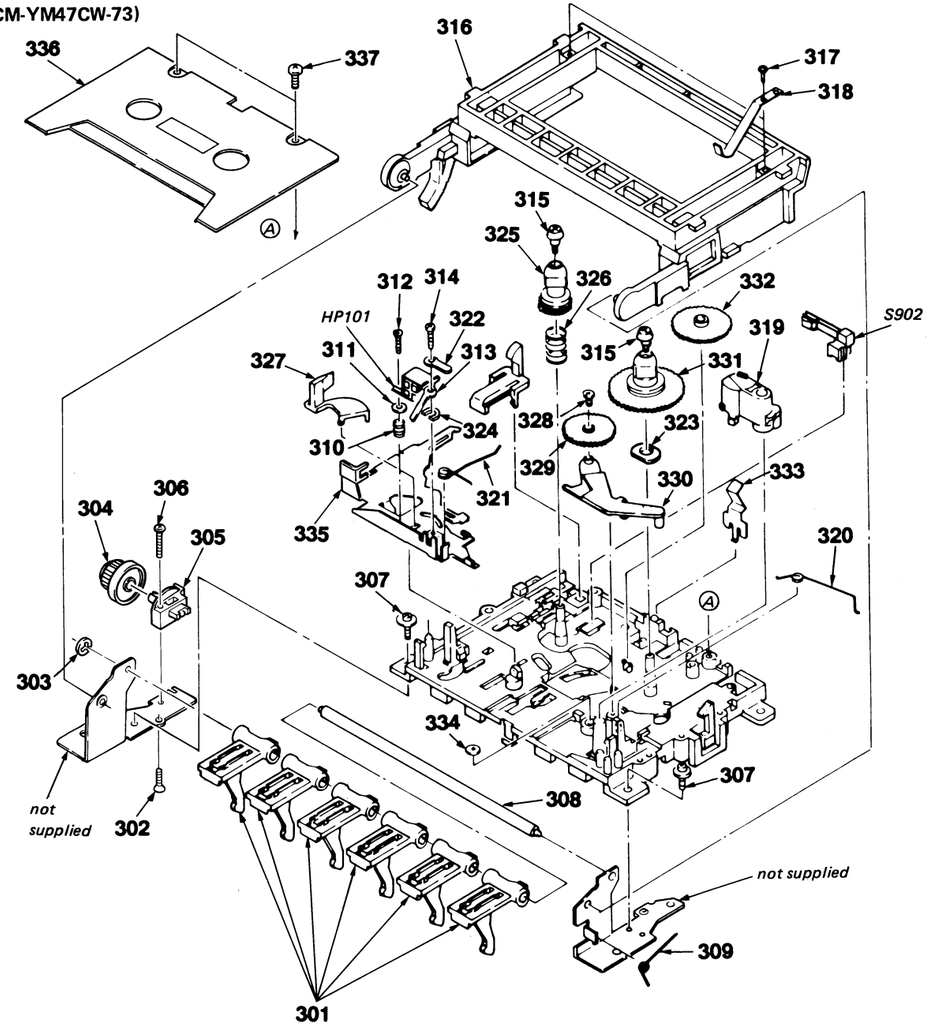
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifé.

(1) GENERAL



No.	Part No.	Description	Remarks
1	X-3340-115-1	LID (A) ASSY, CASSETTE	
2	X-3340-140-1	LID (B) ASSY, CASSETTE	
3	X-3340-141-1	(W295)...PANEL ASSY, FRONT	
	X-3340-142-1	(W390)...PANEL ASSY, FRONT	
4	4-917-460-01	(W390)...KNOB, POWER	
6	3-346-379-01	KNOB (SLIDE)(TAPE)	
7	3-346-381-01	BUTTON (DOLBY, DUBBING SPEED)	
8	3-349-039-01	KNOB (VOL)(REC LEVEL)	
11	4-928-635-21	SCREW, +BV (2.6X10) TAPPING	
12	4-928-635-01	SCREW, +BV (2.6X8) TAPPING	
13	7-682-548-04	SCREW +BVTT 3X8 (S)	
16	*3-346-376-01	REINFORCEMENT, MD	
17	3-349-043-01	BUTTON (BLOCK B)	
18	3-349-042-01	BUTTON (BLOCK A)	
19	7-682-549-04	SCREW +BVTT 3X10 (S)	
20	X-4904-496-1	FOOT ASSY	
21	*3-346-265-11	HOLDER, PC BOARD	
22	*3-349-023-01	(W295)...PANEL, BACK	
	*3-349-023-11	(W390)...PANEL, BACK	
23	*3-327-855-01	(W390)...COVER (TRANSFORMER)	
24	3-703-571-11	(W390)...BUSHING (S) (4516), CORD	
25	3-327-856-61	CASE	
26	3-704-366-01	SCREW (CASE) (M3X8)	
27	3-499-042-XX	BELT, COUNTER	
28	7-621-849-00	(W390)...SCREW, TAPPING	
29	7-685-646-79	(W295)...SCREW +BVTP 3X8 TYPE2	
901	*A-2006-071-A	(W295)...MOUNTED PCB, AUDIO	
	*A-2006-072-A	(W390)...MOUNTED PCB, AUDIO	
903	*1-574-724-11	WIRE, FLAT TYPE (17 CORE)	
904	*1-574-723-11	WIRE, FLAT TYPE (7 CORE)	
905	1-548-596-61	COUNTER, TAPE (MIDDLE TYPE)	
CP1	⚠1-558-945-11	(W390)...CORD, POWER (POLAR.SPT-1)	
T601	⚠1-449-256-11	(W390)...TRANSFORMER, POWER	

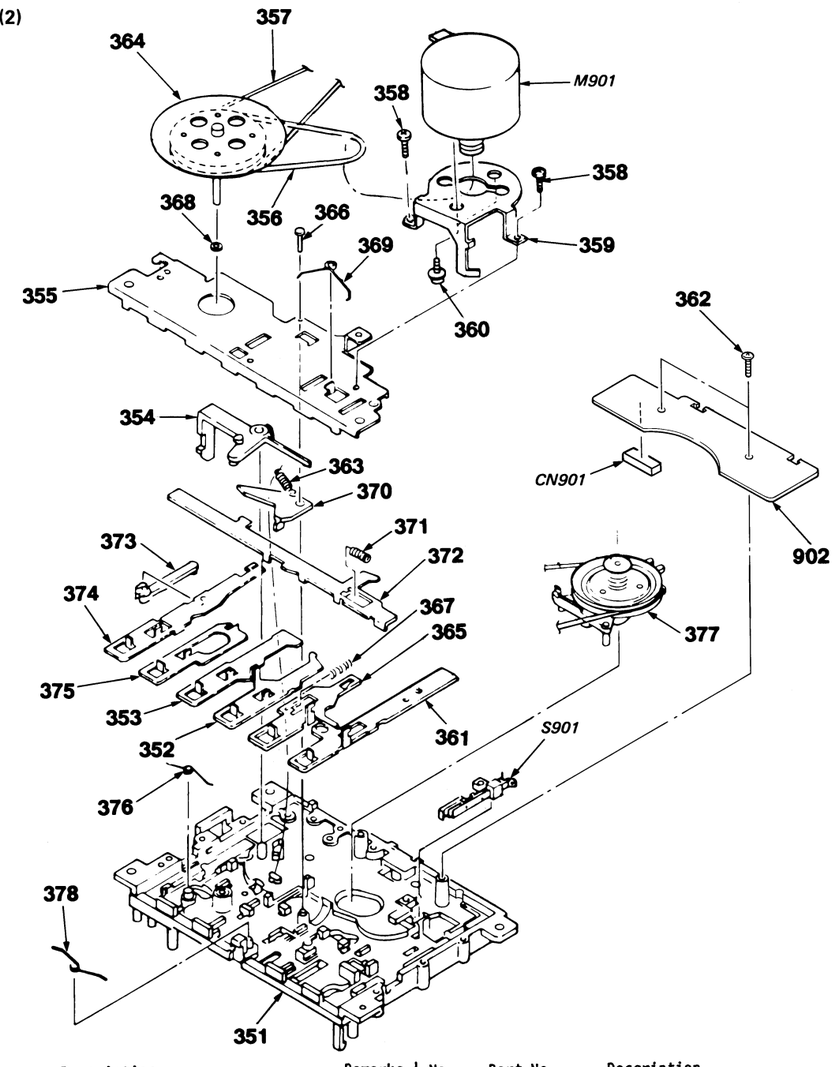
(2) DECK A (1)
(TCM-YM47CW-73)



No.	Part No.	Description	Remarks
301	3-392-140-01	LEVER, BUTTON	
302	7-685-234-14	SCREW +KTP 2.6X8 TYPE2NON-SLIT	
303	7-624-104-04	STOP RING 2.0, TYPE -E	
304	3-392-144-01	DAMPER, GEAR	
305	*3-392-143-01	HOLDER, GEAR	
306	7-685-856-01	SCREW +BVTT 2X12 (S)	
307	7-621-770-67	SCREW, TOTSU PTTWH 2.6X6	
308	*3-392-139-01	SHAFT	
309	3-392-142-01	SPRING	
310	4-894-955-01	C SPRING	
311	3-390-823-01	WASHER, F	
312	7-621-255-55	SCREW, TOTSU P 2X8	
313	3-390-817-01	LUG	
314	7-621-255-15	SCREW +P 2X3	
315	*3-390-203-01	SHAFT PULLEY	
316	3-390-801-01	CASE, CASSETTE	
317	7-685-103-19	SCREW +P 2X5 TYPE2 NON-SLIT	
318	4-894-951-01	KEEP PLATE	
319	3-390-805-01	ROLLER ASSY, PINCH	
320	4-894-967-01	SPRING	

No.	Part No.	Description	Remarks
321	3-390-804-01	SPRING, PINCH ARM	
322	3-390-819-01	LUG	
323	3-390-820-01	SPRING, LEAF	
324	3-390-821-01	SPACER	
325	4-894-953-01	S REEL	
326	4-894-954-01	C SPRING	
327	4-894-956-01	TAPE SENSOR	
328	4-894-960-01	BUSH	
329	4-894-961-01	IDLER GEAR	
330	4-894-962-01	IDLER ARM	
331	4-894-963-01	T REEL ASSY	
332	4-894-964-01	F GEAR	
333	4-894-966-01	SPRING	
334	4-894-969-01	N WASHER	
335	4-895-015-01	HEAD BASE	
336	4-914-974-01	PLATE, ORNAMENTAL, CASSETTE	
337	7-685-133-19	SCREW +P 2.6X6 TYPE2 NON-SLIT	
HP101	1-543-424-21	HEAD, MAGNETIC (REC/PB)	
S902	1-570-430-11	SWITCH, LEAF (FWD A)	

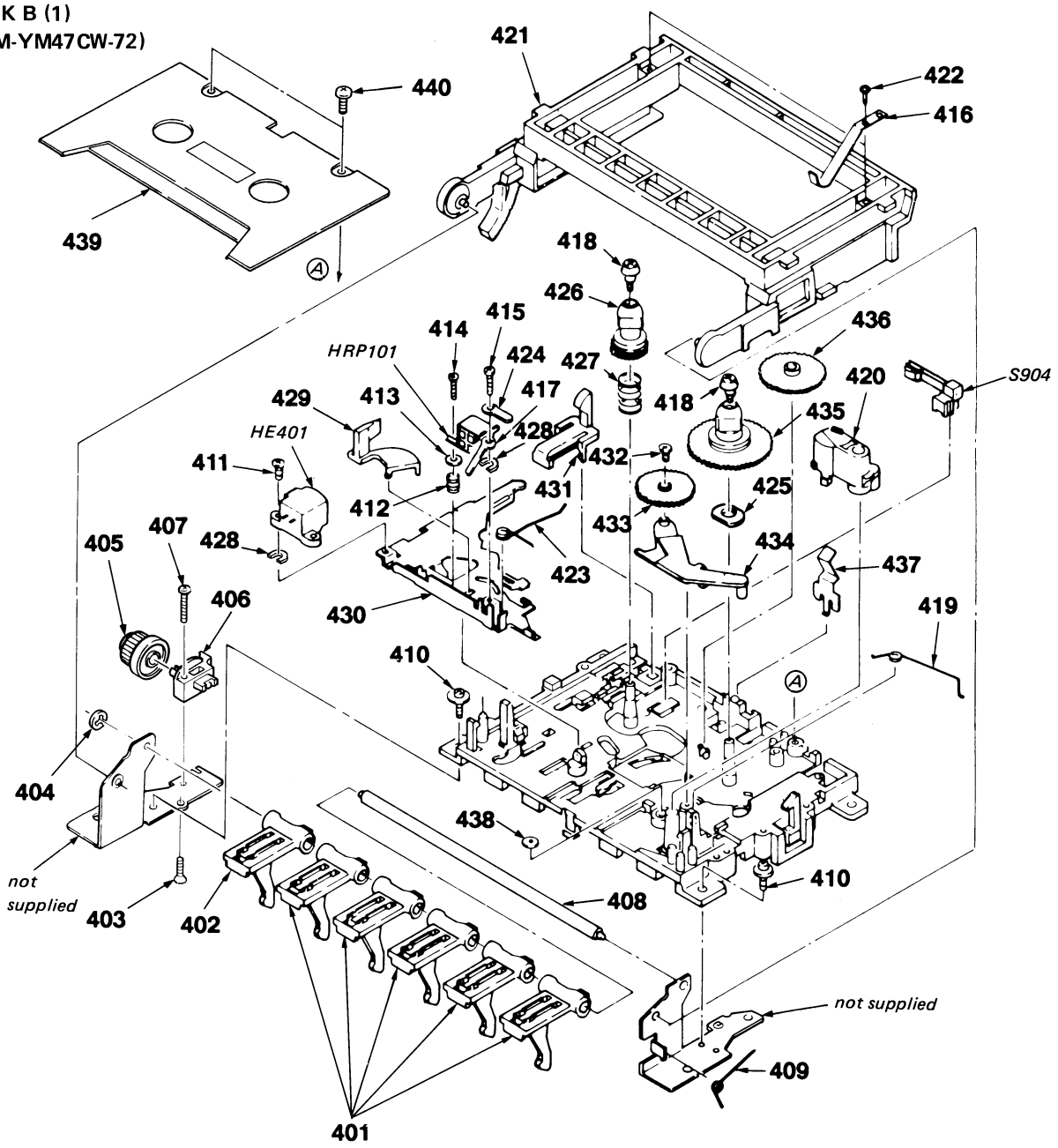
(3) DECK A (2)



No.	Part No.	Description	Remarks
351	4-894-968-01	CHASSIS ASSY	
352	*4-894-990-01	REW LEVER	
353	*4-894-988-01	FF LEVER W	
354	*4-894-980-01	EJECT ARM	
355	*4-894-977-01	BACK PLATE	
356	3-390-807-01	BELT	
357	3-390-816-01	BELT, SQUARE	
358	7-621-255-25	SCREW +PTT 2X4 (S)	
359	*3-390-814-01	BRACKET, MOTOR	
360	7-628-253-90	SCREW +PS 2.6X4	
361	*4-894-994-01	REC LEVER	
362	7-687-233-11	SCREW (+ PTPWH) (2.6X6)	
363	3-390-809-01	SPRING	
364	3-390-806-01	FW ASSY	
365	3-390-810-01	LEVER, PLAY	
366	3-390-822-01	BUSHING (C)	

No.	Part No.	Description	Remarks
367	3-390-827-01	SPRING	
368	4-894-976-01	P WASHER	
369	4-894-978-01	SPRING	
370	4-894-982-01	S ARM	
371	4-894-983-01	C SPRING	
372	4-894-984-01	FUNCTION LEVER	
373	4-894-985-01	PAUSE ARM	
374	*4-894-986-01	PAUSE LEVER	
375	*4-894-987-01	S.E LEVER	
376	4-894-989-01	SPRING	
377	4-894-997-01	POWER ARM ASSY	
378	4-894-999-01	SPRING	
902	*1-631-614-11	PC BOARD, MAIN A	
CN901	*1-564-499-11	PIN, CONNECTOR 6P	
M901	X-3390-801-1	MOTOR ASSY	
S901	1-570-715-11	SWITCH, LEAF (MOTOR A)	

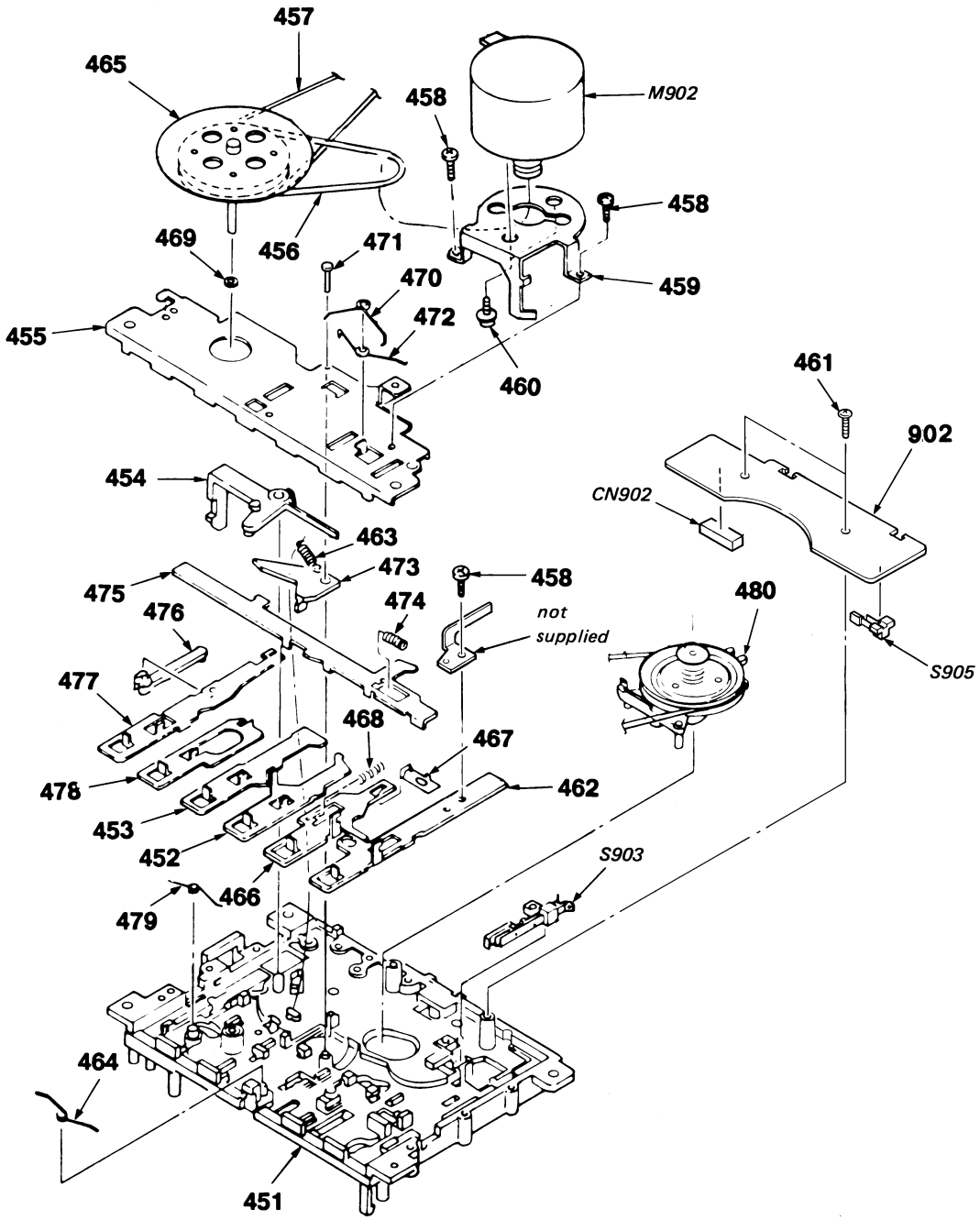
(4) DECK B (1)
(TCM-YM47CW-72)



No.	Part No.	Description	Remarks
401	3-392-140-01	LEVER, BUTTON	
402	3-392-147-01	LEVER (R), BUTTON	
403	7-685-234-14	SCREW +KTP 2.6X8 TYPE2 NON-SLIT	
404	7-624-104-04	STOP RING 2.0, TYPE -E	
405	3-392-144-01	DAMPER, GEAR	
406	*3-392-143-01	HOLDER, GEAR	
407	7-685-856-01	SCREW +BVTT 2X12 (S)	
408	*3-392-139-01	SHAFT	
409	3-392-142-01	SPRING	
410	7-621-770-67	SCREW, TOTSU PTTWH 2.6X6	
411	7-621-255-45	SCREW +PTT 2X6 (S)	
412	4-894-955-01	C SPRING	
413	3-390-823-01	WASHER, F	
414	7-621-255-55	SCREW, TOTSU P 2X8	
415	7-621-255-15	SCREW +P 2X3	
416	4-894-951-01	KEEP PLATE	
417	3-390-817-01	LUG	
418	*3-390-203-01	SHAFT PULLEY	
419	4-894-967-01	SPRING	
420	3-390-805-01	ROLLER ASSY, PINCH	

No.	Part No.	Description	Remarks
421	3-390-801-01	CASE, CASSETTE	
422	7-685-103-19	SCREW +P 2X5 TYPE2 NON-SLIT	
423	3-390-804-01	SPRING, PINCH ARM	
424	3-390-819-01	LUG	
425	3-390-820-01	SPRING, LEAF	
426	4-894-953-01	S REEL	
427	4-894-954-01	C SPRING	
428	3-390-821-01	SPACER	
429	4-894-956-01	TAPE SENSOR	
430	*4-894-957-01	HEAD BASE B	
431	4-894-958-01	INTERLOCK ARM	
432	4-894-960-01	BUSH	
433	4-894-961-01	IDLER GEAR	
434	4-894-962-01	IDLER ARM	
435	4-894-963-01	T REEL ASSY	
436	4-894-964-01	F GEAR	
437	4-894-966-01	SPRING	
438	4-894-969-01	N WASHER	
439	4-914-974-01	PLATE, ORNAMENTAL, CASSETTE	
440	7-685-133-19	SCREW +P 2.6X6 TYPE2 NON-SLIT	
HE401	1-543-261-11	HEAD, ERASE (886-01-24)	
HRP101	1-543-424-21	HEAD, MAGNETIC (REC/PB)	
S904	1-570-430-11	SWITCH, LEAF (FWD B)	

(5) DECK B (2)



No.	Part No.	Description	Remarks
451	4-894-968-01	CHASSIS ASSY	
452	*4-894-990-01	REW LEVER	
453	*4-894-988-01	FF LEVER W	
454	*4-894-980-01	EJECT ARM	
455	*4-894-977-01	BACK PLATE	
456	3-390-807-01	BELT	
457	3-390-816-01	BELT, SQUARE	
458	7-621-255-25	SCREW +PTT 2X4 (S)	
459	*3-390-814-01	BRACKET, MOTOR	
460	7-628-253-90	SCREW +PS 2.6X4	
461	7-687-233-11	SCREW (+ PTPWH) (2.6X6)	
462	*4-894-994-01	REC LEVER	
463	3-390-809-01	SPRING	
464	4-894-999-01	SPRING	
465	3-390-806-01	FW ASSY	
466	3-390-810-01	LEVER, PLAY	
467	3-390-811-01	LEVER, REC STOP	
468	3-390-827-01	SPRING	

No.	Part No.	Description	Remarks
469	4-894-976-01	P WASHER	
470	4-894-978-01	SPRING	
471	3-390-822-01	BUSHING (C)	
472	4-894-979-01	SPRING	
473	4-894-982-01	S ARM	
474	4-894-983-01	C SPRING	
475	4-894-984-01	FUNCTION LEVER	
476	4-894-985-01	PAUSE ARM	
477	*4-894-986-01	PAUSE LEVER	
478	*4-894-987-01	S.E LEVER	
479	4-894-989-01	SPRING	
480	4-894-997-01	POWER ARM ASSY	
902	*1-631-614-11	PC BOARD, MAIN A	
CN902	*1-564-500-11	PIN, CONNECTOR 7P	
M902	X-3390-801-1	MOTOR ASSY	
S903	1-570-715-11	SWITCH, LEAF (MOTOR B)	
S905	1-571-714-11	SWITCH, LEAF (REC)	

SECTION 4
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA...,
UPC...: μPC, UPD...: μPD...

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description			
901	*A-2006-071-A	(W295)...MOUNTED PCB, AUDIO			
	*A-2006-072-A	(W390)...MOUNTED PCB, AUDIO			
902	*1-631-614-11	PC BOARD, MAIN A			
903	*1-574-724-11	WIRE, FLAT TYPE (17 CORE)			
904	*1-574-723-11	WIRE, FLAT TYPE (7 CORE)			
905	1-548-596-61	COUNTER, TAPE (MIDDLE TYPE)			
C101	1-162-291-31	CERAMIC	560PF	10%	50V
C102	1-123-875-11	ELECT	10MF	20%	50V
C103	1-162-282-31	CERAMIC	100PF	10%	50V
C104	1-124-443-00	ELECT	100MF	20%	10V
C105	1-136-157-00	FILM	0.022MF	5%	50V
C106	1-124-925-11	ELECT	2.2MF	20%	50V
C107	1-162-291-31	CERAMIC	560PF	10%	50V
C108	1-123-875-11	ELECT	10MF	20%	50V
C109	1-162-282-31	CERAMIC	100PF	10%	50V
C110	1-124-443-00	ELECT	100MF	20%	10V
C111	1-136-157-00	FILM	0.022MF	5%	50V
C112	1-124-925-11	ELECT	2.2MF	20%	50V
C113	1-161-377-00	CERAMIC	0.0047MF	20%	16V
C114	1-162-289-31	CERAMIC	390PF	10%	50V
C115	1-124-927-11	ELECT	4.7MF	20%	50V
C116	1-124-927-11	ELECT	4.7MF	20%	50V
C121	1-124-925-11	ELECT	2.2MF	20%	50V
C126	1-13[illegible]-587-11	TANTALUM	0.68MF	10%	35V
C127	1-124-257-00	ELECT	2.2MF	20%	50V
C128	1-124-925-11	ELECT	2.2MF	20%	50V
C141	1-136-173-00	FILM	0.47MF	5%	50V
C142	1-124-927-11	ELECT	4.7MF	20%	50V
C143	1-124-443-00	ELECT	100MF	20%	10V
C144	1-123-875-11	ELECT	10MF	20%	50V
C145	1-162-284-31	CERAMIC	150PF	10%	50V
C146	1-136-273-91	FILM	75PF	5%	630V
C191	1-124-925-11	ELECT	2.2MF	20%	50V
C192	1-123-875-11	ELECT	10MF	20%	50V
C201	1-162-291-31	CERAMIC	560PF	10%	50V
C202	1-123-875-11	ELECT	10MF	20%	50V
C203	1-162-282-31	CERAMIC	100PF	10%	50V
C204	1-124-443-00	ELECT	100MF	20%	10V
C205	1-136-157-00	FILM	0.022MF	5%	50V
C206	1-124-925-11	ELECT	2.2MF	20%	50V
C207	1-162-291-31	CERAMIC	560PF	10%	50V
C208	1-123-875-11	ELECT	10MF	20%	50V
C209	1-162-282-31	CERAMIC	100PF	10%	50V
C210	1-124-443-00	ELECT	100MF	20%	10V
C211	1-136-157-00	FILM	0.022MF	5%	50V
C212	1-124-925-11	ELECT	2.2MF	20%	50V
C213	1-161-377-00	CERAMIC	0.0047MF	20%	16V
C214	1-162-289-31	CERAMIC	390PF	10%	50V
C215	1-124-927-11	ELECT	4.7MF	20%	50V
C216	1-124-927-11	ELECT	4.7MF	20%	50V
C221	1-124-925-11	ELECT	2.2MF	20%	50V
C226	1-131-587-11	TANTALUM	0.68MF	10%	35V
C227	1-124-257-00	ELECT	2.2MF	20%	50V
C228	1-124-925-11	ELECT	2.2MF	20%	50V
C241	1-136-173-00	FILM	0.47MF	5%	50V
C242	1-124-927-11	ELECT	4.7MF	20%	50V
C243	1-124-443-00	ELECT	100MF	20%	10V
C244	1-123-875-11	ELECT	10MF	20%	50V
C245	1-162-284-31	CERAMIC	150PF	10%	50V
C246	1-136-273-91	FILM	75PF	5%	630V
C291	1-124-925-11	ELECT	2.2MF	20%	50V
C292	1-123-875-11	ELECT	10MF	20%	50V
C301	1-124-478-11	ELECT	100MF	20%	25V
C302	1-124-478-11	ELECT	100MF	20%	25V
C303	1-162-294-31	CERAMIC	0.001MF	10%	50V
C322	1-126-176-11	ELECT	220MF	20%	10V
C323	1-124-927-11	ELECT	4.7MF	20%	50V
C341	1-123-875-11	ELECT	10MF	20%	50V
C391	1-123-875-11	ELECT	10MF	20%	50V
C401	1-136-562-11	FILM	0.0082MF	5%	630V
C402	1-124-499-11	ELECT	1MF	20%	50V
C403	1-130-482-00	MYLAR	0.0082MF	5%	50V
C404	1-130-478-00	MYLAR	0.0039MF	5%	50V
C405	1-130-478-00	MYLAR	0.0039MF	5%	50V
C406	1-124-902-00	ELECT	0.47MF	20%	50V
C407	1-124-925-11	ELECT	2.2MF	20%	50V
C408	1-141-225-00	CAP, TUNING, TRIMAR (REC BIAS CURRENT ADJ)			
C501	1-124-927-11	ELECT	4.7MF	20%	50V
C502	1-123-875-11	ELECT	10MF	20%	50V
C601	1-124-563-11	(W390)...ELECT	2200MF	20%	25V
C602	1-126-103-11	ELECT	470MF	20%	16V
C603	1-124-478-11	(W390)...ELECT	100MF	20%	25V
C604	1-124-477-11	(W390)...ELECT	47MF	20%	25V
C605	1-124-477-11	ELECT	47MF	20%	25V
C606	1-124-120-11	ELECT	220MF	20%	16V
C701	1-124-927-11	(W390)...ELECT	4.7MF	20%	50V
CN301	*1-564-507-11	PLUG, CONNECTOR 4P			
CN302	*1-564-509-11	PLUG, CONNECTOR 6P			
CN321	*1-566-856-11	(W295)...SOCKET, CONNECTOR 5P (SYSTEM CONTROL 2)			
CN401	*1-564-505-11	PLUG, CONNECTOR 2P			
CN503	*1-566-210-11	(W390)...PIN, CONNECTOR 3P (SYSTEM CONTROL)			
CN504	*1-564-505-11	PLUG, CONNECTOR 2P			

Ref.No.	Part No.	Description
CN505	*1-564-505-11	PLUG, CONNECTOR 2P
CN601	*1-566-856-11	(W295)...SOCKET, CONNECTOR 5P (SYSTEM CONTROL 1)
CN602	*1-564-337-00	(W390)...PIN, CONNECTOR 3P
CN604	1-568-439-11	SOCKET, CONNECTOR 7P
CN605	1-568-440-11	SOCKET, CONNECTOR 17P
CN607A	1-568-437-11	SOCKET, CONNECTOR 7P
CN608	1-568-438-11	SOCKET, CONNECTOR 17P
CN901	*1-564-499-11	PIN, CONNECTOR 6P
CN902	*1-564-500-11	PIN, CONNECTOR 7P
CP1	⚠1-558-945-11	(W390)...CORD, POWER (POLAR.SPT-1)
D191	8-719-304-32	DIODE SEL4214S
D192	8-719-304-32	DIODE SEL4214S
D193	8-719-304-32	DIODE SEL4214S
D194	8-719-304-32	DIODE SEL4214S
D195	8-719-304-32	DIODE SEL4214S
D196	8-719-304-32	DIODE SEL4214S
D291	8-719-304-32	DIODE SEL4214S
D292	8-719-304-32	DIODE SEL4214S
D293	8-719-304-32	DIODE SEL4214S
D294	8-719-304-32	DIODE SEL4214S
D295	8-719-304-32	DIODE SEL4214S
D296	8-719-304-32	DIODE SEL4214S
D401	8-719-000-26	DIODE US1060M
D402	8-719-000-26	DIODE US1060M
D501	8-719-000-26	DIODE US1060M
D504	8-719-000-26	DIODE US1060M
D505	8-719-000-26	DIODE US1060M
D506	8-719-000-26	DIODE US1060M
D507	8-719-000-26	DIODE US1060M
D510	8-719-000-26	DIODE US1060M
D511	8-719-000-26	DIODE US1060M
D512	8-719-000-26	DIODE US1060M
D513	8-719-000-26	DIODE US1060M
D514	8-719-302-45	DIODE SEL1210S (REC)
D515	8-719-941-46	(W390)...DIODE GL-5HY41 (PAUSE)
D516	8-719-000-26	DIODE US1060M
D517	8-719-000-26	DIODE US1060M
D518	8-719-000-26	DIODE US1060M
D601	8-719-200-02	(W390)...DIODE 10E2
D602	8-719-200-02	(W390)...DIODE 10E2
D603	8-719-200-02	(W390)...DIODE 10E2
D604	8-719-200-02	(W390)...DIODE 10E2
D605	8-719-933-33	(W390)...DIODE HZS6A1L
D606	8-719-200-02	(W295)...DIODE 10E2
D607	8-719-200-02	(W295)...DIODE 10E2
D608	8-719-933-70	DIODE HZS11C2L

Ref.No.	Part No.	Description
IC191	8-759-913-80	IC IR2E31
IC291	8-759-913-80	IC IR2E31
IC301	8-759-800-36	IC LA3160
IC302	8-759-800-36	IC LA3160
IC303	8-759-601-43	IC M4066BP
IC322	8-752-031-67	IC CXA1100P
IC341	8-752-033-61	IC CXA1198AP
IC342	8-759-208-06	IC TC4051BPHB
IC501	8-759-601-10	IC M4011BP
IC502	8-759-601-06	IC M4001BP
HE401	1-543-261-11	HEAD, ERASE (886-01-24)
HP101	1-543-424-21	HEAD, MAGNETIC (REC/PB)
HRP101	1-543-424-21	HEAD, MAGNETIC (REC/PB)
J321	1-565-258-11	JACK, PIN 4P (LINE IN/LINE OUT)
L131	1-410-780-11	INDUCTOR 27MMH
L231	1-410-780-11	INDUCTOR 27MMH
M901	X-3390-801-1	MOTOR ASSY
M902	X-3390-801-1	MOTOR ASSY
Q101	8-729-115-77	TRANSISTOR BA1L4M
Q121	8-729-119-78	TRANSISTOR 2SC2785
Q141	8-729-119-78	TRANSISTOR 2SC2785
Q201	8-729-115-77	TRANSISTOR BA1L4M
Q221	8-729-119-78	TRANSISTOR 2SC2785
Q241	8-729-119-78	TRANSISTOR 2SC2785
Q321	8-729-115-77	TRANSISTOR BA1L4M
Q401	8-729-194-57	TRANSISTOR 2SC945-P
Q402	8-729-194-57	TRANSISTOR 2SC945-P
Q403	8-729-281-52	TRANSISTOR 2SC1815Y
Q404	8-729-900-65	TRANSISTOR DTA144ES
Q405	8-729-900-80	TRANSISTOR DTC114ES
Q501	8-729-900-65	TRANSISTOR DTA144ES
Q502	8-729-900-65	TRANSISTOR DTA144ES
Q503	8-729-900-61	(W390)...TRANSISTOR DTA114ES
Q504	8-729-801-93	(W390)...TRANSISTOR 2SD1387
Q505	8-729-115-77	(W390)...TRANSISTOR BA1L4M
Q506	8-729-900-65	(W390)...TRANSISTOR DTA144ES
Q507	8-729-115-77	TRANSISTOR BA1L4M
Q508	8-729-900-80	(W390)...TRANSISTOR DTC114ES
Q509	8-729-900-65	TRANSISTOR DTA144ES
Q511	8-729-900-80	(W390)...TRANSISTOR DTC114ES
Q512	8-729-115-77	(W390)...TRANSISTOR BA1L4M
Q601	8-729-209-15	(W390)...TRANSISTOR 2SD2012
Q602	8-729-209-15	TRANSISTOR 2SD2012
Q603	8-729-107-77	(W390)...TRANSISTOR 2SC3623-L
Q605	8-729-245-82	(W390)...TRANSISTOR 2SC2458-Y

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description			
R101	1-247-889-00	CARBON	270K	5%	1/4W
R102	1-249-404-00	CARBON	82	5%	1/4W
R103	1-247-882-11	CARBON	130K	5%	1/4W
R104	1-249-426-11	CARBON	5.6K	5%	1/4W
R106	1-247-889-00	CARBON	270K	5%	1/4W
R107	1-249-404-00	CARBON	82	5%	1/4W
R108	1-247-882-11	CARBON	130K	5%	1/4W
R109	1-249-426-11	CARBON	5.6K	5%	1/4W
R110	1-249-430-11	CARBON	12K	5%	1/4W
R111	1-249-431-11	CARBON	15K	5%	1/4W
R112	1-247-887-00	CARBON	220K	5%	1/4W
R113	1-249-441-11	CARBON	100K	5%	1/4W
R114	1-249-441-11	CARBON	100K	5%	1/4W
R121	1-249-435-11	CARBON	33K	5%	1/4W
R122	1-249-417-11	CARBON	1K	5%	1/4W
R129	1-249-421-11	CARBON	2.2K	5%	1/4W
R130	1-249-429-11	CARBON	10K	5%	1/4W
R131	1-249-417-11	CARBON	1K	5%	1/4W
R132	1-249-429-11	CARBON	10K	5%	1/4W
R133	1-249-421-11	CARBON	2.2K	5%	1/4W
R134	1-249-434-11	CARBON	27K	5%	1/4W
R135	1-247-842-11	CARBON	3K	5%	1/4W
R141	1-249-426-11	CARBON	5.6K	5%	1/4W
R142	1-249-421-11	CARBON	2.2K	5%	1/4W
R144	1-249-421-11	CARBON	2.2K	5%	1/4W
R145	1-249-430-11	CARBON	12K	5%	1/4W
R191	1-249-441-11	CARBON	100K	5%	1/4W
R192	1-249-405-11	CARBON	100	5%	1/4W
R201	1-247-889-00	CARBON	270K	5%	1/4W
R202	1-249-404-00	CARBON	82	5%	1/4W
R203	1-247-882-11	CARBON	130K	5%	1/4W
R204	1-249-426-11	CARBON	5.6K	5%	1/4W
R206	1-247-889-00	CARBON	270K	5%	1/4W
R207	1-249-404-00	CARBON	82	5%	1/4W
R208	1-247-882-11	CARBON	130K	5%	1/4W
R209	1-249-426-11	CARBON	5.6K	5%	1/4W
R210	1-249-430-11	CARBON	12K	5%	1/4W
R211	1-249-431-11	CARBON	15K	5%	1/4W
R212	1-247-887-00	CARBON	220K	5%	1/4W
R213	1-249-441-11	CARBON	100K	5%	1/4W
R214	1-249-441-11	CARBON	100K	5%	1/4W
R221	1-249-435-11	CARBON	33K	5%	1/4W
R222	1-249-417-11	CARBON	1K	5%	1/4W
R229	1-249-421-11	CARBON	2.2K	5%	1/4W
R230	1-249-429-11	CARBON	10K	5%	1/4W
R231	1-249-417-11	CARBON	1K	5%	1/4W
R232	1-249-429-11	CARBON	10K	5%	1/4W
R233	1-249-421-11	CARBON	2.2K	5%	1/4W

Ref.No.	Part No.	Description			
R234	1-249-434-11	CARBON	27K	5%	1/4W
R235	1-247-842-11	CARBON	3K	5%	1/4W
R241	1-249-426-11	CARBON	5.6K	5%	1/4W
R242	1-249-421-11	CARBON	2.2K	5%	1/4W
R244	1-249-421-11	CARBON	2.2K	5%	1/4W
R245	1-249-430-11	CARBON	12K	5%	1/4W
R291	1-249-441-11	CARBON	100K	5%	1/4W
R292	1-249-405-11	CARBON	100	5%	1/4W
R301	1-247-743-11	CARBON	220	5%	1/2W
R302	1-247-743-11	CARBON	220	5%	1/2W
R321	1-249-433-11	CARBON	22K	5%	1/4W
R322	1-215-460-00	METAL	43K	1%	1/6W
R323	1-247-876-11	CARBON	75K	5%	1/4W
R324	1-249-405-11	CARBON	100	5%	1/4W
R341	1-249-441-11	CARBON	100K	5%	1/4W
R342	1-247-864-11	CARBON	24K	5%	1/4W
R343	1-247-887-00	CARBON	220K	5%	1/4W
R344	1-247-883-00	CARBON	150K	5%	1/4W
R345	1-247-881-00	CARBON	120K	5%	1/4W
R346	1-249-440-11	CARBON	82K	5%	1/4W
R347	1-249-435-11	CARBON	33K	5%	1/4W
R348	1-249-439-11	CARBON	68K	5%	1/4W
R349	1-249-438-11	CARBON	56K	5%	1/4W
R350	1-247-874-11	CARBON	62K	5%	1/4W
R351	1-249-436-11	CARBON	39K	5%	1/4W
R352	1-247-874-11	CARBON	62K	5%	1/4W
R353	1-247-870-11	CARBON	43K	5%	1/4W
R354	1-249-439-11	CARBON	68K	5%	1/4W
R355	1-249-440-11	CARBON	82K	5%	1/4W
R356	1-247-876-11	CARBON	75K	5%	1/4W
R357	1-247-876-11	CARBON	75K	5%	1/4W
R358	1-249-437-11	CARBON	47K	5%	1/4W
R359	1-249-434-11	CARBON	27K	5%	1/4W
R360	1-249-438-11	CARBON	56K	5%	1/4W
R361	1-247-881-00	CARBON	120K	5%	1/4W
R362	1-249-440-11	CARBON	82K	5%	1/4W
R363	1-247-882-11	CARBON	130K	5%	1/4W
R364	1-247-872-11	CARBON	51K	5%	1/4W
R365	1-249-437-11	CARBON	47K	5%	1/4W
R366	1-249-436-11	CARBON	39K	5%	1/4W
R367	1-249-438-11	CARBON	56K	5%	1/4W
R368	1-249-439-11	CARBON	68K	5%	1/4W
R369	1-247-876-11	CARBON	75K	5%	1/4W
R370	1-249-437-11	CARBON	47K	5%	1/4W
R371	1-247-876-11	CARBON	75K	5%	1/4W
R372	1-249-438-11	CARBON	56K	5%	1/4W
R373	1-249-441-11	CARBON	100K	5%	1/4W
R374	1-247-890-11	CARBON	300K	5%	1/4W

Ref.No.	Part No.	Description			
R375	1-249-436-11	CARBON	39K	5%	1/4W
R376	1-247-881-00	CARBON	120K	5%	1/4W
R377	1-247-881-00	CARBON	120K	5%	1/4W
R378	1-247-881-00	CARBON	120K	5%	1/4W
R379	1-249-437-11	CARBON	47K	5%	1/4W
R380	1-249-437-11	CARBON	47K	5%	1/4W
R381	1-249-433-11	CARBON	22K	5%	1/4W
R391	1-249-414-11	CARBON	560	5%	1/4W
R401	1-249-393-11	CARBON	10	5%	1/4W
R402	1-249-433-11	CARBON	22K	5%	1/4W
R403	1-249-433-11	CARBON	22K	5%	1/4W
R404	1-249-429-11	CARBON	10K	5%	1/4W
R405	1-249-417-11	CARBON	1K	5%	1/4W
R406	1-249-433-11	CARBON	22K	5%	1/4W
R408	1-247-856-00	CARBON	11K	5%	1/4W
R409	1-247-848-11	CARBON	5.1K	5%	1/4W
R410	1-249-411-11	CARBON	330	5%	1/4W
R501	1-249-420-11	CARBON	1.8K	5%	1/4W
R502	1-249-408-11	CARBON	180	5%	1/4W
R503	1-249-425-11	CARBON	4.7K	5%	1/4W
R504	1-249-420-11	CARBON	1.8K	5%	1/4W
R505	1-249-408-11	CARBON	180	5%	1/4W
R506	1-249-425-11	CARBON	4.7K	5%	1/4W
R507	1-249-393-11	(W390)...CARBON	10	5%	1/4W
R509	1-249-421-11	(W390)...CARBON	2.2K	5%	1/4W
R510	1-249-427-11	CARBON	6.8K	5%	1/4W
R511	1-249-435-11	CARBON	33K	5%	1/4W
R512	1-249-440-11	CARBON	82K	5%	1/4W
R513	1-249-429-11	CARBON	10K	5%	1/4W
R514	1-249-441-11	CARBON	100K	5%	1/4W
R515	1-249-415-11	CARBON	680	5%	1/4W
R516	1-249-442-11	(W390)...CARBON	510	5%	1/4W
R517	1-249-421-11	(W390)...CARBON	2.2K	5%	1/4W
R518	1-249-417-11	(W390)...CARBON	1K	5%	1/4W
R520	1-249-425-11	CARBON	4.7K	5%	1/4W
R521	1-249-417-11	(W390)...CARBON	1K	5%	1/4W
R550	1-249-429-11	CARBON	10K	5%	1/4W
R570	1-247-848-11	CARBON	5.1K	5%	1/4W
R603	1-249-421-11	(W390)...CARBON	2.2K	5%	1/4W
R604	1-249-421-11	(W390)...CARBON	2.2K	5%	1/4W
R605	1-249-429-11	(W390)...CARBON	10K	5%	1/4W
R606	1-249-421-11	(W390)...CARBON	2.2K	5%	1/4W
R607	1-249-421-11	(W390)...CARBON	2.2K	5%	1/4W
R608	1-249-411-11	CARBON	330	5%	1/4W
R702	1-249-417-11	(W390)...CARBON	1K	5%	1/4W
R703	1-249-421-11	(W390)...CARBON	2.2K	5%	1/4W

Ref.No.	Part No.	Description
RV101	1-228-994-00	RES, ADJ, CARBON 10K (PB LEVEL DECK A (L))
RV102	1-228-994-00	RES, ADJ, CARBON 10K (PB LEVEL DECK B (L))
RV141	1-228-994-00	RES, ADJ, CARBON 10K (REC LEVEL ADJ (L))
RV201	1-228-994-00	RES, ADJ, CARBON 10K (PB LEVEL DECK A (R))
RV202	1-228-994-00	RES, ADJ, CARBON 10K (PB LEVEL DECK B (R))
RV241	1-228-994-00	RES, ADJ, CARBON 10K (REC LEVEL ADJ (R))
RV321	1-238-262-11	RES, VAR, CARBON 20K/20K (REC LEVEL)
RV501	1-228-991-00	RES, ADJ, CARBON 2.2K (NOMAL SPEED DECK A)
RV502	1-228-990-00	RES, ADJ, CARBON 1K (HIGH SPEED DECK A)
RV503	1-228-991-00	RES, ADJ, CARBON 2.2K (NOMAL SPEED DECK A)
RV504	1-228-990-00	RES, ADJ, CARBON 1K (HIGH SPEED DECK A)
RY401	1-515-614-11	RELAY (REC/PB)
S301	1-571-628-11	SWITCH, SLIDE (DECK B TAPE SELECT)
S302	1-571-627-21	SWITCH, SLIDE (DECK A TAPE SELECT)
S303	1-571-510-11	SWITCH, PUSH (1 KEY)(DOLBY NR)
S501	1-571-510-11	SWITCH, PUSH (1 KEY)(DUBBING SPEED)
S601	1-570-393-21	(W390)...SWITCH, PUSH (1 KEY)(POWER)
S901	1-570-715-11	SWITCH, LEAF (MOTOR A)
S902	1-570-430-11	SWITCH, LEAF (FWD A)
S903	1-570-715-11	SWITCH, LEAF (MOTOR B)
S904	1-570-430-11	SWITCH, LEAF (FWD B)
S905	1-571-714-11	SWITCH, LEAF (REC)
T401	1-433-303-11	TRANSFORMER, BIAS OSCILLATION
T601	⚠1-449-256-11	(W390)...TRANSFORMER, POWER

ACCESSORY & PACKING MATERIAL.

1-558-543-11	(W390)...CORD, CONNECTION
1-558-649-11	(W390)...CORD (WITH CONNECTOR) 3P
*3-346-325-91	(W390)...INDIVIDUAL CARTON
*3-349-037-01	(W390)...CUSHION
3-703-450-01	(W390)...INSTRUCTION
*3-704-343-01	(W390)...SHEET (STANDARD), PROTECTION
3-750-171-21	(W390)...MANUAL, INSTRUCTION

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifé.

9-953-656-11

Sony Corporation
Audio Group

English
89D0937-1
Printed in Japan
© 1989.4
Published by A/V Engineering Service Dept.